## INTERNATIONAL SEARCH REPORT

International application No.
PCT/US97/23125

	SSIFICATION OF SUBJECT MATTER :H04K 1/00, H04L 9/00			
	:380/23, 25, 30; 235/382 o International Patent Classification (IPC) or to both national classification and IPC			
	DS SEARCHED			
	ocumentation searched (classification system followed by classification symbols)			
U.S. : 3	380/23, 25, 30, 24, 4, 49, 28, 21; 235/382, 380			
Documentat	tion searched other than minimum documentation to the extent that such documents are included	in the fields searched		
Electronic d	lata base consulted during the international search (name of data base and, where practicable,	search terms used)		
c. Doc	CUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
A	US 5,373,561 A (HABER et al.) 13 December 1994	1-82		
Α	US 5,548,106 A (LIANG et al.) 20 August 1996	1-82		
A	US 5,524,052 A (AUGUSTINE et al.) 04 June 1996	1-82		
A	US 5,455,863 A (BROWN et al.) 03 October 1995	1-82		
A	US 5,440,633 A (AUGUSTINE et al.) 08 August 1995	1-82		
A	US 5,416,842 A (AZIZ) 16 May 1995	1-82		
A, P	Fancher, "In your Pocket Smartcards", IEEE Spectrum February 1997, pp 47-53	1-82		
X   Further documents are listed in the continuation of Box C.   See patent family annex.				
*A* Special categories of cited documents:  "T* later document published after the international filing date or priorit date and not in conflict with the application but cited to understan to be of particular relevance.				
*E* earlier document published on or after the international filing date  *L* document which may throw doubts on priority claim(s) or which is  *X* document of particular relevance; to considered novel or cannot be c				
cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other combined with one or more other as		e step when the document is ch documents, such combination		
•p• c	means  document published prior to the international filing date but later than "%"  document member of the same patent family the priority date claimed			
Date of the actual completion of the international search  Date of mailing of the international search report				
23 MARCH 1998 .0 5 MAY 1998				
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231  Authorized officer DAVID CAIN				
	Facsimile No. (703) 305-3230 Telephone No. (703) 305-1836			

## INTERNATIONAL SEARCH REPORT

International application No. PCT/US97/23125

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
X, E	US 5,724,423 A (KHELLO) 03 March 1998, column 6, line 31 - column 16 line 61.	1-82	
A, P	US 5,623,637 A (JONES, et al.) 22 April 1997	1-82	